

MAGNETIC RESONANCE IMAGING DEVICE

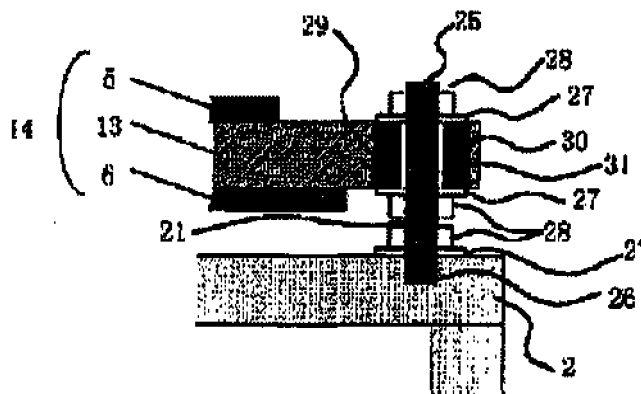
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Abstract of JP2001149338

PROBLEM TO BE SOLVED: To provide an inclined magnetic field coil structure of low vibration and low noise and a fixing structure therefor in a magnetic resonance imaging device having magnetostatic field generating sources having a high opening characteristic.

SOLUTION: Two sets of magnetostatic field generating sources are oppositely arranged in the vertical direction, and two sets of almost flat coil assemblies 14 are oppositely arranged by sandwiching a uniform magnetic field area (a measuring space) formed between both magnetostatic field generating sources. The coil assemblies 14 are composed of a main coil 5 for generating an inclined magnetic field in the measuring space, a shield coil 6 for shielding this external magnetic field and an intermediate member 13 arranged between both coils. The intermediate member 13 is composed of a highly rigid material. Plural vibration damping materials 30 are arranged in an outer peripheral part of the intermediate member 13, and a bolt 25 of a fixing tool is implanted in a surface of a cooling vessel (a stationary object) 2 corresponding to these vibration damping materials. The intermediate member 13 of the coil assemblies 14 is fixed to the cooling vessel 2 by the bolt 25 via the vibration damping materials 30.



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